

Palm Beach County – System 10 **formerly Village of Royal Palm Beach**

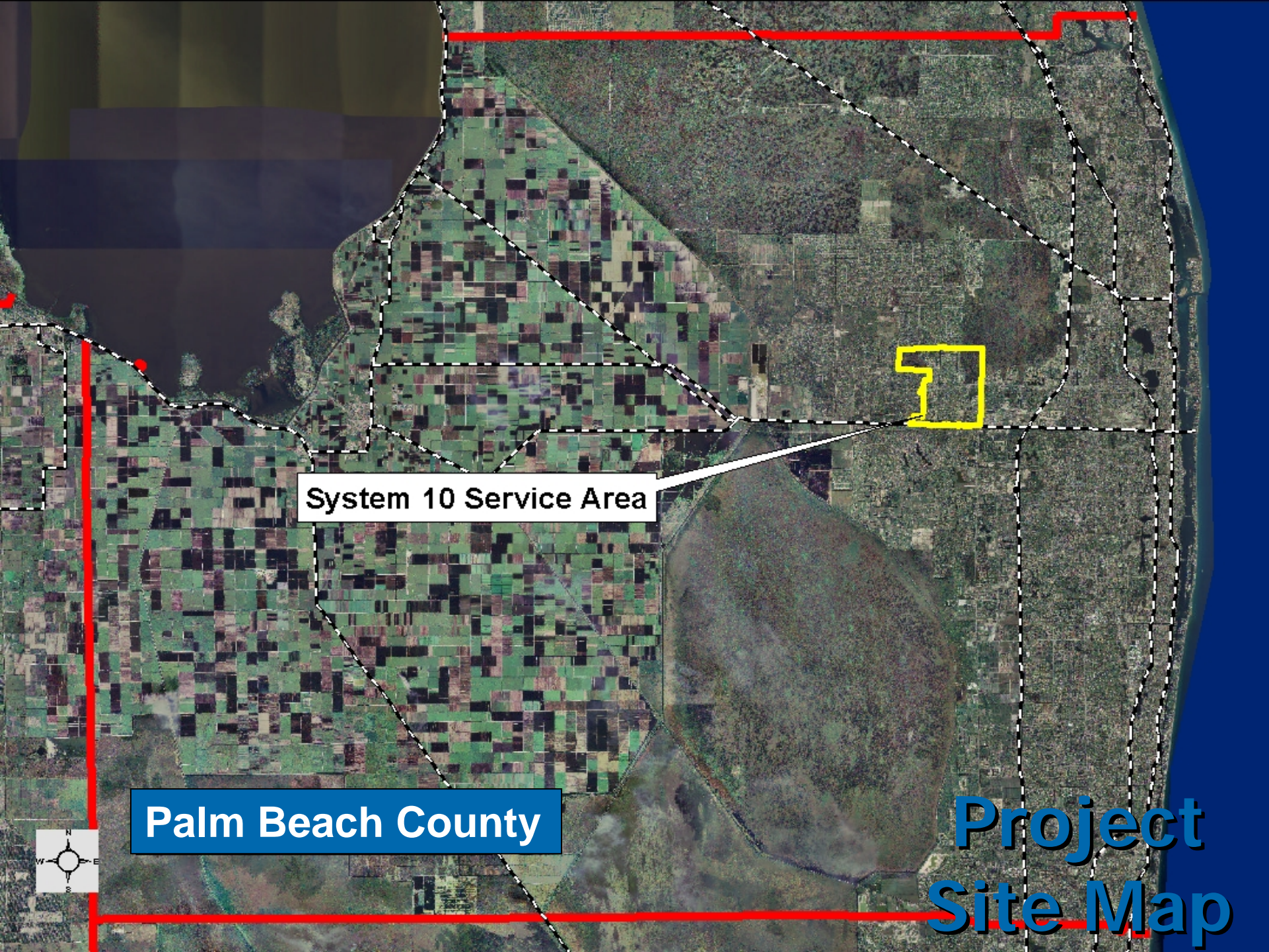
Water Use Permit **Modification/Renewal**

Chip Merriam
Deputy Executive Director, Water Resources Area

Governing Board - May 15, 2008



sfwmd.gov



System 10 Service Area

Palm Beach County

Project
Site Map

Grassy Waters
Preserve

Palm Beach County
System 10
Service Area

Wellfield

C-51

7

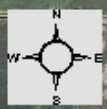
704

98

441

882

Project
Site Map



Palm Beach County Utilities System 10 Permit Summary

PBC System 10	Existing	Projected	Planning Horizon (Years)
Population (people)	34,990	34,186	20
Per Capita-Source Water Unadjusted (GPCD)*	120	123	20
Treatment Method	Lime Softening & Membranes	Lime Softening & Membranes	N/A

*** GPCD - Gallons Per Capita per Day**

Palm Beach County Utilities System 10 Permit Summary

Water Resource (Aquifer)	Existing (Annual Average) * MGD	Proposed (Annual Average) * MGD	Expires Years
Surficial Aquifer System (Base Condition)	3.12	3.0	20
Purchased Water (PBCWUD Interconnections)	N/A	1.2 (estimated)	N/A
TOTAL		4.2	

*** MGD - Million Gallons Per Day**

Summary of Requested Modifications by PBC

- Permit duration
 - Surficial aquifer system
 - Reduce allocation of historic base condition - 20 years
 - Meet Regional Water Availability Rule



Palm Beach County Utilities

Permit Special Conditions

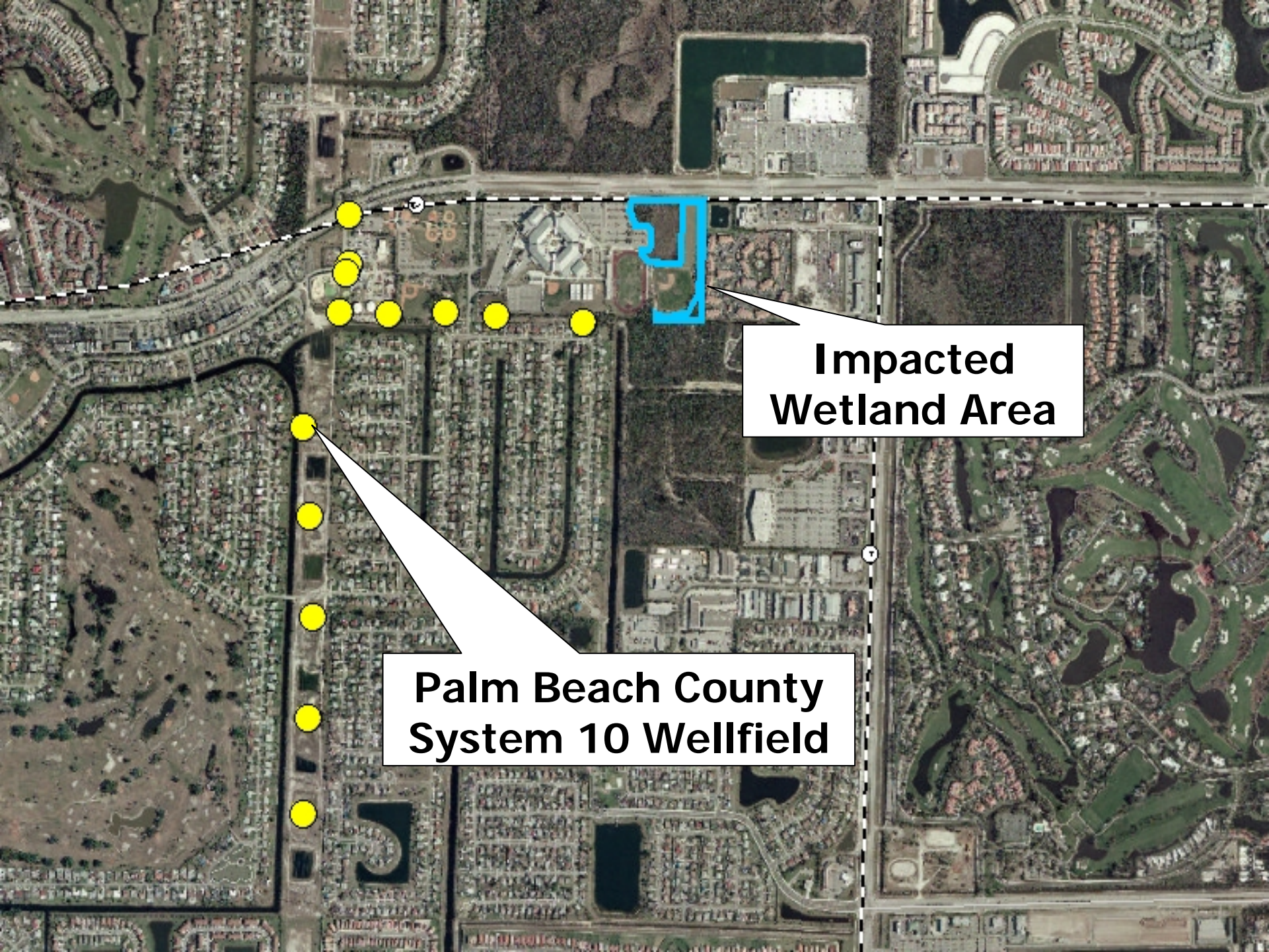
- **Five year compliance reporting**
 - Efficiency of use & water conservation audit
- **Monitoring**
 - Water level
 - Chloride
 - Wetlands
- **Mitigation**



Palm Beach County Utilities

System 10 – Wetland Mitigation / Monitoring

- **10/13/94 - Wetland of concern approved as mitigation area for Royal Palm Beach High School**
- **Historic wetland harm - offset by purchase of 2.56 credits from Loxahatchee Mitigation Bank**
- **Potential future wetland harm - offset by the purchase of 0.61 credits from Loxahatchee Mitigation Bank**
- **Conservation easement - remains in place to protect remaining wetland functions**
- **Wetland monitoring - required to provide assurances that no harm to offsite wetlands in Pond Cypress Natural Area**



**Impacted
Wetland Area**

**Palm Beach County
System 10 Wellfield**

Palm Beach County System 10 Wetland Monitoring Plan



Reference Wetland Site



Wetland Monitoring Site

State Road 7 Extension

OKEECHOBEE ROAD

OKEECHOBEE BLVD

Palm Beach County Utilities

System 10 – 20 Year Water Use Permit

Staff Recommends Governing Board Approval

**“Approve the renewal and modification of
Water Use Permit 50-00444-W (Application #040113-4),
for Palm Beach County Utilities Water Treatment Plant Number 10 for a 20
year duration subject to 32 limiting conditions”**

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System 10 – FYI Reuse Factoids

■ Treated wastewater produced 2.16 MGD

■ Reuse/reclaimed facility rated capacity - 1.24 MGD

- 0.58 MGD actual reuse water produced**

- 26.9% of wastewater generated is reused**

■ Deep well injection - 1.58 MGD –disposal

■ Projected reuse

- Continue to develop towards 100%**